PAUL R. LEPAGE
GOVERNOR

PATRICIA W. AHO
COMMISSIONER

NMC, Inc. **Aroostook County** **Presque Isle, Maine** **A-746-71-E-M**	**Departmental** **Findings of Fact and Order** **Air Emission License** **Minor Revision**

After review of the air emissions license amendment application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 Maine Revised Statutes Annotated (M.R.S.A.), §344 and §590, the Maine Department of Environmental Protection (Department) finds the following facts:

I. REGISTRATION

A. Introduction

NMC, Inc. (NMC), formally known as Northern Maine Crematory, Inc., was issued Air Emission License A-746-71-D-R on September 3, 2013, permitting the operation of their Class IV-A crematory.

NMC has requested a minor revision to make corrections to their air emissions license in order to make the Findings of Fact consistent with the Order by reducing the loading pre-heat temperature of Cremator #1's secondary chamber from 1600°F to 1200°F, per manufacturer and testing data provided by NMC.

The equipment addressed in this license is located at 2 Houlton Road, Presque Isle, Maine.

B. Emission Equipment

Cremator #1, a Class IV-A Power-Pax II model IE-43-PPII crematory incinerator manufactured by IE & E Co., is addressed in this air emission license.

C. Application Classification

This amendment will make corrections to the air emissions license and will not increase emissions of any pollutant. This amendment is determined to be a minor revision and has been processed through *Major and Minor Source Air Emission License Regulations*, 06-096 CMR 115 (as amended).

II. FINDINGS OF FACT REVISIONS

A. Introduction

The following shall replace the operating parameters contained in section IIB of the 'Findings of Fact' section in air emissions license A-746-71-D-R:

- Operating parameters:

  - Operating temperature in the secondary chamber shall be maintained at or above 1600°F for the duration of the burn cycle, with a stack gas retention time, at or above 1600°F, of at least 0.5 second.

  - To ensure an efficient burn, and to prevent odors and visible emissions, the secondary chamber will be preheated, as specified by the manufacturer, until the pyrometer temperature measures at least 1200°F.

  - No charge shall be introduced into the primary chamber until the temperature in the secondary chamber has reached 1200°F.

  - Once the burn cycle has commenced by introduction of primary chamber combustion, Cremator #1 shall be operated in an efficient manner, and as specified by the manufacturer, for the period of time between preheat and reaching the set operational temperature to be a minimum of 1600^0F in the secondary chamber.

  - A pyrometer and 1/4 inch test port shall be installed and maintained at that location of Cremator #1 or refractory lined stack which provides sufficient volume to insure a flue gas retention time of not less than 0.5 second at a minimum of 1600°F.

  - A log will be maintained recording the weight of the charge, preheat time, charging time and the temperature of the secondary chamber every 60 minutes after start-up until, and including, final shutdown time. For facilities operating a chart recorder, the start time, date, and weight charged shall be logged on the chart.

  - Operator(s) of Cremator #1 shall receive adequate training to operate Cremator #1 in accordance with the manufacturer's specifications and shall be familiar with the terms of the Air Emission License.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards, and
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-746-71-E-M subject to the conditions found in Air Emission License A-746-71-D-R and in the following conditions.

Severability. The invalidity or unenforceability of any provision, or part thereof, of this License shall not affect the remainder of the provision or any other provisions. This License shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

SPECIFIC CONDITIONS

The following shall replace Condition (16) License A-746-71-D-R:

(16) **Cremator #1**

A. Cremator #1 shall be used for the disposal of type 4 waste and shall not be used for the disposal of plastics, cytotoxic (antineoplastic) drugs or any radioactive wastes and shall not be used to dispose of any medical waste classified as type 7 waste, as defined in 06-096 CMR 100. [06-096 CMR 115, BPT]

B. Cremator #1 shall not exceed the unit's maximum design combustion rates. Auxiliary fuel inputs to the primary and secondary chambers shall be liquid propane. Compliance shall be demonstrated through fuel receipts. [06-096 CMR 115, BPT]

C. Cremator #1 shall not exceed a particulate matter emission limit of 0.20 gr/dscf, corrected to 12% CO_2. Licensed allowed emissions for Cremator #1 shall not exceed the following:

Cremator #1 Emission Limits

	lb/hr
PM	1.2
PM_{10}	1.2
SO_2	0.2

NOx	0.6
CO	0.3
VOC	0.2

Compliance shall be demonstrated through stack testing by request of the Department, in accordance with the appropriate method found in 40 CFR Part 60, Appendix A. [06-096 CMR 115, BPT]

D. Visible emissions from the stack of Cremator #1 shall not exceed 10% on a six-minute block average basis. [06-096 CMR 115, BPT]

E. Operating temperature in the secondary chamber shall be maintained at or above 1600°F, with a stack gas retention time, at or above 1600°F, of at least 0.5 seconds. [06-096 CMR 115, BPT]

F. To insure an efficient burn, and to prevent odors and visible emissions, the secondary chamber will be preheated, as specified by the manufacturer, until the pyrometer temperature measures at least 1200°F. [06-096 CMR 115, BPT/BACT]

G. Once the burn cycle has commenced by introduction of primary chamber combustion, Cremator #1 shall be operated in an efficient manner, and as specified by the manufacturer, for the period of time between preheat and reaching the set operational temperature to be a minimum of 1600^0F in the secondary chamber. The temperature in the secondary chamber shall be maintained at a minimum of 1600°F for the duration of the burn cycle. [06-096 CMR 115, BPT/BACT]

H. No charge shall be introduced into the primary chamber until the temperature in the secondary chamber has reached 1200°F. [06-096 CMR 115, BPT/BACT]

I. A pyrometer and 1/4 inch test port shall be installed and maintained at that location of Cremator #1 or refractory lined stack which provides sufficient volume to insure a flue gas retention time of not less than 0.5 second at a minimum of 1600°F. [06-096 CMR 115, BPT]

J. A log shall be maintained recording the weight of the charge, preheat time, charging time and the temperature of the secondary chamber every sixty minutes after start-up until, and including, final shutdown time. For facilities operating a chart recorder, the start time, date, and weight charged shall be logged on the chart. [06-096 CMR 115, BPT]

K. Operator(s) of Cremator #1 shall receive adequate training to operate Cremator #1 in accordance with the manufacturer's specifications and shall be

familiar with the terms of the Air Emission License. [06-096 CMR 115, BPT]

L. NMC shall operate, in good working order, a chart-recording device to document compliance with the temperature requirements of this license. For each burn cycle, the chart shall have documented on it the start time, date and weight of the charge. [06-096 CMR 115, BPT]

DONE AND DATED IN AUGUSTA, MAINE THIS 29 DAY OF April, 2014.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: Marc Allen Robert Cone for
PATRICIA W. AHO, COMMISSIONER

The term of this amendment shall be concurrent with the term of Air Emission License A-746-71-D-R.

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: March 12, 2014
Date of application acceptance: March 19, 2014

Date filed with the Board of Environmental Protection:

This Order prepared by Kevin J Ostrowski, Bureau of Air Quality.

Filed
APR 29 2014
State of Maine
Board of Environmental Protection